

Course Number and Name												
BEC4L1 - ELECTRONIC CIRCUIT DESIGN LAB												
Credits and Contact Hours												
2 and 45												
Course Coordinator's Name												
Ms K.Subbulakshmi												
Text Books and References												
Lab Manual												
Course Description												
<ul style="list-style-type: none"> To gain hands on experience in designing electronic circuits. To learn simulation software used in circuit design. To learn the fundamental principles of amplifier ,Oscillator and multivibrator circuits Construct waveform generation circuits 												
Prerequisites						Co-requisites						
BEC3L1-Electronics Devices and circuit Lab						BEC402-Electronics Circuits						
required, elective, or selected elective (as per Table 5-1)												
required												
Course Outcomes (COs)												
CO1: Analyse the characteristics of amplifiers.												
CO2 : Analyse the characteristics of Oscillators.												
CO3 : Analyse the characteristics of Multivibrators.												
CO4 : Analyse the characteristics of tuned amplifiers.												
CO5: Analyse the frequency response of amplifiers using pSpice.												
CO6 : Model the design of electronic circuits using PSpice.												
Student Outcomes (SOs) from Criterion 3 covered by this Course												
	COs/SOs	a	b	c	d	E	f	G	h	i	j	k
	CO1	H		H	H		M			M		
	CO2	H	M	H	H		M		M	M	L	
	CO3	M	M		H							
	CO4	M			H			M				
	CO5			M		H						
	CO6	L	H	H		H	H		M	M	M	
List of Topics Covered												
LIST OF EXPERIMENTS												
1.Feedback amplifier												
2. Transistor phase shift oscillator												
3. Class A single tuned amplifier												
4. LC Oscillators												
5. Collector coupled and Emitter coupled Astable multivibrator												
6. Wein bridge oscillator												
7. Schmitt Trigger												
8. Emitter coupled bistable multivibrator												
9. Monostable multivibrator												
10. Class C tuned amplifier												
SIMULATION USING SPICE:												
11.Frequency response of CE amplifier with Emitter resistance.												
12.DC response of CS amplifier												
13.Frequency response of Cascade amplifier.												
14.Transfer Characteristics of Class B Power Amplifier												